IEEE P802.11
Wireless LANs

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| **Comment Resolutions for Pilot subcarriers** |
| **Date:** 2025-06-20 |
| **Author(s):** |

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Abstract

This submission proposes resolutions for comments of TGbn D0.3 with the following 28 CIDs:

602 , 607 , 1098, 1651, 1747, 603 , 604 , 605 , 606 , 1591, 2332, 2333, 608 , 1186, 1187, 1188, 1189, 1190, 1646, 1647, 1648, 1649, 1650, 1652, 1746, 1185, 2331, 2334

Revisions:

* Rev 0: Initial version of the document.
* Rev 1:

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbn D0.2 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbn D0.2 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbn Editor: Editing instructions preceded by “TGbn Editor” are instructions to the TGbn editor to modify existing material in the TGbn draft. As a result of adopting the changes, the TGbn editor will execute the instructions rather than copy them to the TGbn Draft.***

#### *CIDs 1123 1124 2260 2264*

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 602 | 38.3.16.8 | 199.52 | The number of pilots for DRU has nothing to do with 4x or 2x UHR-LTF. Delete "with 4x or 2x UHR-LTF", | See the comment. | Revised  Agree in principle with the commenter.*Please make the following changes in Page 305 Line 25 of D0.3:*The number of pilot tones for DRU is the same as the same size RRU ~~with 4x~~~~or 2x UHR-LTF~~. |
| 607 | 38.3.16.8 | 202.39 | Description on pilot indices for DRU is duplicated. Delete one part of the descriptions. Recommend to follow the second part. | See the comment. | Revised The pilot indices can be presented in two ways—grouped by DRU size or grouped by DBW. We can remove one of these approaches.*Please make the following changes in Page 305 Line 34 of D0.3:*Delete the text from P305L34 to P308L23. |
| 1098 | 38.3.16.8 | 202.34 | Duplicated description of DRU pilots. These are the same information. | Keep only one version of the DRU pilot description |
| 1651 | 38.3.16.8 | 202.34 | Remove duplication description of pilot indices | as in comment |
| 1747 | 38.3.16.8 | 202.45 | The table 38-42~38-44 are douplicated define for table 38-37~38-41 | follow the 11be style to delete table 38-42~38-44 |
| 603 | 38.3.16.8 | 199.60 | No 26-tone DRU is defined in DBW60. Change "in an 20 MHz, a 40 MHz, or a 60 MHz DBW" to "in a 20 MHz, or a 40 MHz DBW". Also delete "and Table 38-x3 (Data and pilot subcarrier indices for Distributed-tone RUs (DRU) in a 60 MHz UHR TB PPDU),".In addtion, delete the row for 60 MHz in Table 38-37. | See the comment. | Rejected It have been removed according to CID607. Therefore, no further changes are needed. |
| 604 | 38.3.16.8 | 201.09 | Delete "Table 38-x4". | See the comment. |
| 605 | 38.3.16.8 | 201.39 | Change "Table 38-x2" to "Table 38-5". Change "Table 38-x4" to "Table 38-6". Ditto on L5P202. | See the comment. |
| 606 | 38.3.16.8 | 201.55 | 60 MHz PPDU bandwidth is not defined. Change "PPDU bandwidth" to "DBW" in Table 38-40. | See the comment. |
| 1591 | 38.3.16.8 | 200.14 | 60MHz is not a PPDU bandwidth, it would be better to define pilot indices as per DBW. And define the pilot indices for DBW60 in Table 38-37 to 38-40. | See the comment. |
| 2332 | 38.3.16.8 | 200.01 | Please add TBD for Table 38-x3 since DRU size support is not decided for DBW 60MHz. | As in comment |
| 2333 | 38.3.16.8 | 201.09 | Delete "Table 38-x4", and use "Table 38-6 for DBW 80MHz | As in comment |
| 608 | 38.3.16.8 | 203.27 | Include a table and description for pilot indices for DBW60. | See the comment. | Revised TGbn editor: Please apply the changes marked as #608 in this document. |
| 1186 | 38.3.16.8 | 200.22 | Add the pilot indices for DBW 60 in the table 38-37 | As the comment. |
| 1187 | 38.3.16.8 | 200.56 | Add the pilot indices for DBW 60 in the table 38-38 | As the comment. |
| 1188 | 38.3.16.8 | 201.27 | Add the pilot indices for DBW 60 in the table 38-39 | As the comment. |
| 1189 | 38.3.16.8 | 201.59 | Add the pilot indices for DBW 60 in the table 38-40 | As the comment. |
| 1190 | 38.3.16.8 | 203.26 | Like as 20/40, add the description and table of pilot indices for DRU transmission over 60MHz | As the comment. |
| 1646 | 38.3.16.8 | 200.23 | Define TBD | as in comment |
| 1647 | 38.3.16.8 | 200.01 | Define Table 38-x3 | as in comment |
| 1648 | 38.3.16.8 | 200.56 | Define TBD | as in comment |
| 1649 | 38.3.16.8 | 201.27 | Define TBD | as in comment |
| 1650 | 38.3.16.8 | 201.59 | Define TBD | as in comment |
| 1652 | 38.3.16.8 | 203.31 | Add pilot indices for 60 MHz DRU transmission | as in comment |
| 1746 | 38.3.16.8 | 200.55 | The pilot indices for 60MHz DBW is missing | add the pilot indices for 60MHz DBW |
| 1185 | 38.3.16.8 | 200.01 | Add the table for Data and pilot subcarrier indices of DBW60 in the subclause 38.3.2.1 | As the comment. | Rejected The table is already there in draft0.3. Therefore, no further changes are needed. |
| 2331 | 38.3.16.8 | 199.56 | "11bn" should not be used in spec text, replace "11bn supports hierarchical pilot structure for DRU" with "UHR DRU tone plan has a hierachical pilot structure". | As in comment | Revised Agree in principle with the commenter.*Please make the following changes in Page 305 Line 30 of D0.3:*UHR DRU tone plan has a hierachical pilot structure. |
| 2334 | 38.3.16.8 | 202.41 | For Table 38-42 to Table 38-44, all the indices only apply to the case when PPDU BW is the same as DBW. When DBW is less than PPDU BW, there are tone shifts to be applied. Please clarify that. | As in comment | Rejected The shift for is already defined in there in Table 38-10—Constant shift value Kshift for DRU on a frequency subblock of wide bandwidth of draft0.3. Therefore, no further changes are needed. |

*TGbn Editor: Please Insert the following in Page 309 Line 26 of D0.3(#608):*

 (#608) For a user transmitting on the i-th 52/106/242-tone DRU in 60 MHz DBW, the pilot subcarriers shall be inserted in subcarriers k∈ *KdRxx\_i*, where *KdRxx\_i* is given by the i-th pilot index set in the row of given DRU size of Table38-xx (Pilot indices for DRU transmission over 60 MHz).

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| Table38-xx Pilot indices for DRU transmission over 60 MHz |
| DRU size | *KdRxx\_i* |
| DRU52, i = 1:12 | {-373 -219 -65 173}, {-450 -296 -142 96}, {-412 -258 -104 134}, {-335 -181 -27 211}, {-386 -232 -78 160}, {-463 -309 -155 83}, {-425 -271 -117 121}, {-348 -194 -40 198}, {-399 -245 -91 147}, {-476 -322 -168 70}, {-438 -284 -130 108}, {-361 -207 -53 185} |
| DRU106, i = 1:6 | {-450 -296 -142 96}, {-335 -181 -27 211}, {-463 -309 -155 83}, {-348 -194 -40 198}, {-476 -322 -168 70}, {-361 -207 -53 185} |
| DRU242, i = 1:3 | {-450 -335 -296 -181 -142 -27 96 211}, {-463 -348 -309 -194 -155 -40 83 198}, {-476 -361 -322 -207 -168 -53 70 185} |